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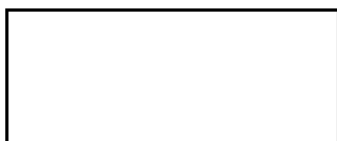


DIRECTORATE OF
INTELLIGENCE

Imagery Analysis Service Notes

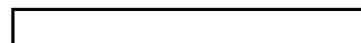
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CENTRAL INTELLIGENCE AGENCY
Directorate of Intelligence
Imagery Analysis Service

IMAGERY ANALYSIS SERVICE NOTES NO. 28/70

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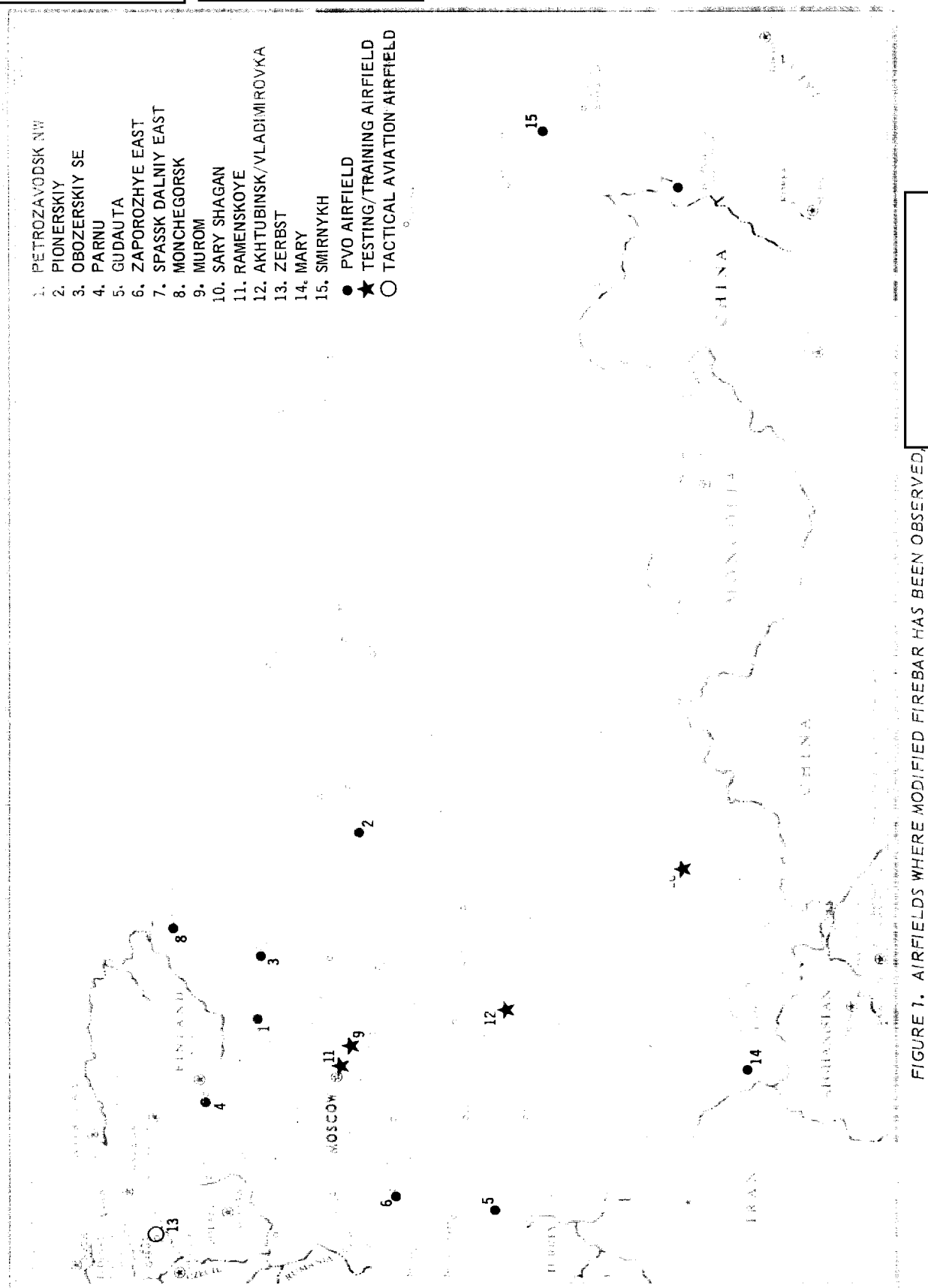
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USSR

Deployment of Modified Firebar Aircraft

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It can now be confirmed from satellite photography that modified Firebar aircraft have been deployed to Soviet airfields since at least [REDACTED]. Analysis currently under way in IAS has thus far revealed approximately 50 modified Firebars since that time at 14 Soviet Air Defense (PVO) and testing/training airfields, mainly in peripheral areas of the western USSR. Several have been observed in the Soviet Far East and at a Tactical Aviation airfield in [REDACTED] (See Figure 1.) Prior to the [REDACTED] sighting at a PVO airfield, the modified Firebar had been observed only in 1967 at the Moscow/Domodedovo Air Show and at the Novosibirsk Airframe Plant.

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The Firebar is a tandem seat, supersonic, all-weather interceptor, capable of carrying two air-to-air missiles. The modified Firebar (Longnose) has a 5.25-foot extension to the nose radome which probably houses improved avionic equipment for better air-to-air missile guidance. When seen in Moscow in 1967, one additional pylon had been added under each wing to enable the aircraft to carry four missiles. To date, only two Anab air-to-air missiles have been observed on the modified Firebar. (See Figure 2).

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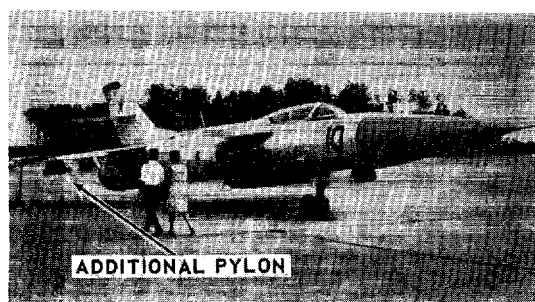
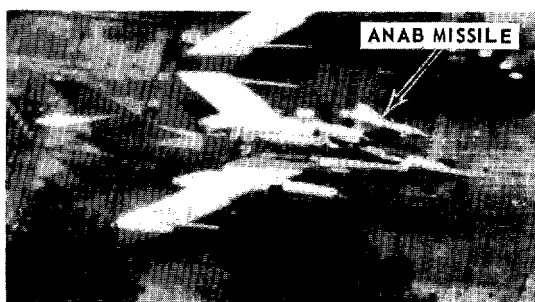


FIGURE 2. STANDARD FIREBAR AT AIRFIELD [REDACTED] (LEFT) AND LONGNOSE MODIFIED FIREBAR AT MOSCOW/DOMODEDOVO AIR SHOW, [REDACTED]

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USSRModified Tall King Radar Being Deployed

Satellite photography reveals that during the past year the Soviets have deployed seven Tall King air-warning radars with modified feed structures. The sites where they have been deployed include four SA-5 launch facilities. These are field transportable radars which can be emplaced in a much shorter time than conventional Tall Kings. Six of seven other Tall Kings seen deployed during this period are also field transportable, but their type of feed structure cannot be determined from the photography. These observations suggest that Tall Kings deployed in the future may have the modified feed structure and presumably will be field transportable.

The antenna reflector on the modified radar resembles that of a conventional Tall King, but the feed structure is larger and is supported by two parallel arms instead of a single arm. The two arms are shorter than the standard single arm and are the basic identification feature of the modified Tall King. A field-transportable modified Tall King was first seen on photography in [] at the Gorkiy Electronic Research and Development Facility. In [] one was seen at the Kapustir Yar Electronic Research Facility where it was probably being tested in a more complete air defense environment.

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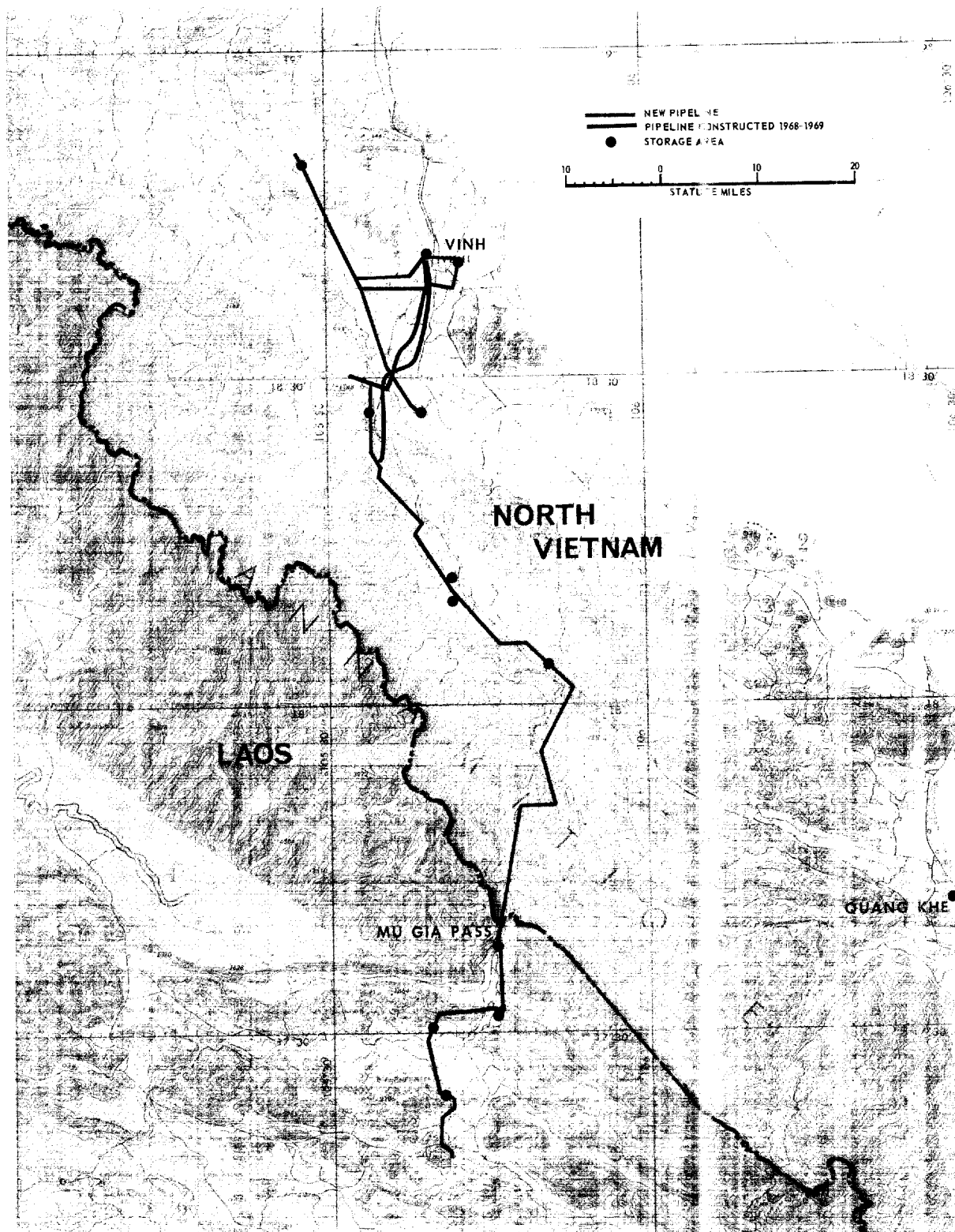


FIGURE 3. NEW POL PIPELINE CONSTRUCTION NEAR VINH, NORTH VIETNAM, [REDACTED]

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NORTH VIETNAMAdditional POL Pipeline

The North Vietnamese have built an additional POL pipeline southward from the Vinh area. On photography of early [] the line was complete for at least 17 nm southward from the petroleum storage facility at the Vinh rail yard. Several pipe sections were laid as early as [] [] The extent of the new pipeline cannot be determined from available photography. However, the new pipeline parallels a portion of one built during 1968-69 from Vinh south through the Mu Gia Pass into Laos (see Figure 3). The new pipeline may be intended to supplement the older one, which still appears to be in place.

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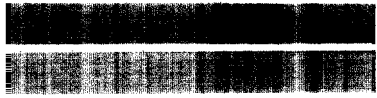
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